



DC FAST CHARGING INLETS

Enable safe, fast charging for trucks, buses and other industrial and commercial vehicles

As hybrid and electric vehicles claim their share of the industrial and commercial transportation market, it's vital to ensure that designs enable fast, secure charging without compromising on the ruggedness required on the field. TE Connectivity's (TE) HIVONEX charging inlets are ready to meet these challenges.

While connectivity inside a hybrid or electric vehicle requires high standards and safety, none are as likely to be interacted with as much as the charging port. Ensuring that it's easy, safe, and reliable even in extreme conditions is a necessity, for the good of the vehicle, as well as everyone that operates or maintains it. TE's HIVONEX charging inlets, built specifically for industrial and commercial vehicles, are the right choice for facing the challenge.

Our HIVONEX charging inlet connectors are modular, so you can customize the product to your specific requirements. With cable exits to the left or right side, these connectors adapt to your design, not the other way around. Capable of 10,000 mating cycles, while charging at 250 VAC (at 32 A), and 1000 VDC (at 250+ A), these HIVONEX charging inlets are designed specifically for the rigorous requirements of industrial and commercial vehicles. This means larger cable sizes than what's seen in the Automotive market -

DC 70 mm² / PE 25 mm² / AC 6 mm² to accommodate higher power over extended periods of time, and IP67 ingress rating.

Keeping safety top of mind means an integrated actuator for end position sensing, integrated PT1000 temperature sensors for enhanced temperature monitoring, and optional protective flaps to help keep out dust and moisture. With an LED charging indicator option available, your end user can easily distinguish when the vehicle is actively charging. Moreover, ease your supply chain and manufacturing worries by utilizing our available kits, and pigtail cable assemblies (available in 1.5 m or 3 m lengths).

BENEFITS

Modular Design

- Cable exits to left and right side
- Optional LED charging indicator for end-user ease of use
- Optional snap-on protective flaps with choice of opening direction

Built for Industrial and Commercial Vehicle Applications

- Capable of 10,000 mating cycles, while charging at 250 VAC (at 32 A), and 1000 VDC (at 250+ A)
- Larger cable sizes than what's seen in the Automotive market - DC 70 mm² / PE 25 mm² / AC 6 mm²
- Enhanced safety features: integrated actuator for end position sensing, integrated PT1000 temperature sensors for enhanced temperature monitoring

Simplify Your Supply Chain

- Pre-made kits available from TE and key distributors
- Pigtail cable assemblies available in 1.5 m or 3 m length

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KITS ORDERING INFORMATION

Kit PN	Variant	LED	Flap Opening Direction	Cable Exit Direction
2375501-1	CCS1	N/A	No Flap	Left
2375501-2			No Flap	Right
2375501-3			Left	Left
2375501-4			Left	Right
2375501-5			Right	Left
2375501-6			Right	Right
2375502-1	CCS2		No Flap	Left
2375502-2			No Flap	Right
2375502-3			Left	Left
2375502-4			Left	Right
2375502-5			Right	Left
2375502-6			Right	Right
2388501-1	CCS1	Yes	No Flap	Left
2388501-2			No Flap	Right
2388501-3			Left	Left
2388501-4			Left	Right
2388501-5			Right	Left
2388501-6			Right	Right
2388502-1	CCS2		No Flap	Left
2388502-2			No Flap	Right
2388502-3			Left	Left
2388502-4			Left	Right
2388502-5			Right	Left
2388502-6			Right	Right

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PIGTAILS ORDERING INFORMATION – LED

Kit PN	Variant	Pigtail Length	LED	Flap Opening Direction	Cable Exit Direction
2393947-1	CCS1	1.5 m	Yes	No Flap	Left
2393947-2				No Flap	Right
2393947-3				Left	Left
2393947-4				Left	Right
2393947-5				Right	Left
2393947-6				Right	Right
1-2393947-1		3 m		No Flap	Left
1-2393947-2				No Flap	Right
1-2393947-3				Left	Left
1-2393947-4				Left	Right
1-2393947-5				Right	Left
1-2393947-6				Right	Right
2393949-1	CCS2	1.5 m	Yes	No Flap	Left
2393949-2				No Flap	Right
2393949-3				Left	Left
2393949-4				Left	Right
2393949-5				Right	Left
2393949-6				Right	Right
1-2393949-1		3 m		No Flap	Left
1-2393949-2				No Flap	Right
1-2393949-3				Left	Left
1-2393949-4				Left	Right
1-2393949-5				Right	Left
1-2393949-6				Right	Right

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PIGTAILS ORDERING INFORMATION – NON-LED

Kit PN	Variant	Pigtail Length	LED	Flap Opening Direction	Cable Exit Direction
2377168-1	CCS1	1.5 m	N/A	No Flap	Left
2377168-2				No Flap	Right
2377168-3				Left	Left
2377168-4				Left	Right
2377168-5				Right	Left
2377168-6				Right	Right
1-2377168-1		3 m		No Flap	Left
1-2377168-2				No Flap	Right
1-2377168-3				Left	Left
1-2377168-4				Left	Right
1-2377168-5				Right	Left
1-2377168-6				Right	Right
2377698-1	CCS2	1.5 m	N/A	No Flap	Left
2377698-2				No Flap	Right
2377698-3				Left	Left
2377698-4				Left	Right
2377698-5				Right	Left
2377698-6				Right	Right
1-2377698-1		3 m		No Flap	Left
1-2377698-2				No Flap	Right
1-2377698-3				Left	Left
1-2377698-4				Left	Right
1-2377698-5				Right	Left
1-2377698-6				Right	Right

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SPECIFICATIONS

Operating Temperature

- -40°C to +85°C

Voltage Range

- 250 VAC
- 1000 VDC

Conductor Cross-sections

- DC 70 mm² / PE 25 mm² / AC 6 mm²

Current Carrying Capacity

- 32 A (AC), 250+ A (DC)

Variants

- CCS1 and CCS2

Fire Classification

- UL94-V0

IP Rating

- IP67

Product Specification

- Non-LED CCS1: 108-94803
- LED CCS1: 108-94838
- Non-LED CCS2: 108-94804
- LED CCS2: 108-94839

Application Specification

- non-LED CCS1: 114-94674
- LED CCS1: 114-94722
- non-LED CCS2: 114-94675
- LED CCS2: 114-94723

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